

crushing and delignifying a solid medium containing *Lentinus edodes* mycelia in the presence of water and one or more enzymes selected from the group consisting of cellulase, protease and glucosidase to prepare a suspension, wherein said solid medium is based on bagasse and defatted rice bran; and

raising the temperature of said suspension to inactivate the enzymes;

wherein said extract enhances  $\gamma\delta T$  cell activity.

2 15. The extract of claim 14, which comprises carbohydrates, proteins, polyphenols, crude fat, crude ash and soluble nitrogen-free materials other than carbohydrates.

3 16. The extract of claim 14, which comprises approximately, 25.3% carbohydrates, 19.7% proteins, 2.6% polyphenols, 8% crude fat, 22% crude ash and 20% soluble nitrogen-free materials other than carbohydrates.

4 17. The extract of claim 14, wherein said extract is capable of activating  $\gamma\delta T$  cells in vitro.

5 18. A pharmaceutical or veterinary composition for enhancing  $\gamma\delta T$  cell activity, which comprises an extract of claim 14 and a pharmaceutically acceptable carrier.

6. The composition of claim 17, wherein said composition is suitable for oral administration.

*B1*  
*cont.* 7. The composition of claim 17, wherein said composition is prepared in the form of a food.

8. The composition of claim 17, wherein said composition is prepared in the form of a drink.

9. The composition of claim 17, wherein said composition is prepared in the form of a feed.

10. The composition of claim 17, wherein said composition is suitable for injection or percutaneous administration.

11. A method of treating a tumor which comprises administering to a subject in need thereof an effective amount the extract of claim 17 to enhance  $\gamma\delta T$  cell activity.

12. A method of treating a tumor which comprises administering to a subject in need thereof an effective amount the extract of claim 17 to enhance  $\gamma\delta T$  cell activity.

*B*  
26. A method of treating a bacterial or viral infection which comprises administering to a subject in need thereof an effective amount the extract of claim ~~24~~ to enhance  $\gamma\delta T$  cell activity.

*B1  
cont.*  
27. A method of treating a bacterial or viral infection which comprises administering to a subject in need thereof an effective amount the extract of claim ~~25~~ to enhance  $\gamma\delta T$  cell activity.

28. The method of claim ~~26~~ or ~~27~~, wherein said disease is an infection by *Mycobacterium*, spp.

29. The method of claim ~~26~~ or ~~27~~, wherein said disease is an infection by *Listeria monocytogenes*.

30. The method of claim ~~26~~ or ~~27~~, wherein said disease is an infection by Hepatitis A.

31. The method of claim ~~26~~ or ~~27~~, wherein said disease is an infection by Hepatitis B.

32. The method of claim ~~26~~ or ~~27~~, wherein said disease is an infection by Hepatitis C.

<sup>20</sup>  
23. The method of claim <sup>13</sup> or <sup>14</sup> ~~26~~ or ~~21~~, wherein said disease is an  
infection by human immunodeficiency virus.

<sup>21</sup>  
<sup>21</sup>  
24. The method of claim <sup>13</sup> or <sup>14</sup> ~~26~~ or ~~21~~, wherein said disease is an  
infection by vaccinia virus.--

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